

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	TTORNEY DOCKET NO. CONFIRMATION NO.	
10/517,862	12/14/2004	Kenji Hyodo	450100-05035	9013	
7590 03/17/2010 William S Frommer			EXAM	EXAMINER	
Frommer Lawrence & Haug			CHIO, TAT CHI		
745 Fifth Aver New York, NY			ART UNIT	PAPER NUMBER	
			2621		
			MAIL DATE	DELIVERY MODE	
			03/17/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/517.862 HYODO, KENJI Office Action Summary

	cincorionon cummary	Examiner	Art Unit				
		TAT CHIO	2621				
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ad	ldress			
Period fe	or Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING D/ chasions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MCNTHS from the making date of this communication. A certain communication of the communication of the communication of the certain certain communication of the certain certain communication of the certain	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. sely filed the mailing date of this of (35 U.S.C. § 133).	,			
Status							
1) 又	Responsive to communication(s) filed on 02 M	arch 2010.					
		ction is non-final.					
3)□	Since this application is in condition for allowar	secution as to the	e merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dienoeit	ion of Claims						
4)[2]	Claim(s) 1-3 is/are pending in the application.						
5\□	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed.						
	Claim(s)s/are allowed. Claim(s) 1-3 is/are rejected.						
	Claim(s) is/are objected to.						
	☐ Claim(s) are subjected to. ☐ Claim(s) are subject to restriction and/or election requirement.						
٥,۵	are subject to rectriction under	olodion requirement.					
Applicat	ion Papers						
9)[The specification is objected to by the Examine	r.					
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to by the I	Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓΟ-152.			
Priority	under 35 U.S.C. § 119						
12)□	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119(a)	-(d) or (f)				
	□ All b)□ Some * c)□ None of:	priority arradi do Greior 3 i ro(a)	(4) 5. (1).				
۵,	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents		on No.				
	3. Copies of the certified copies of the prior			Stage			
	application from the International Bureau	-		- 0			
* :	See the attached detailed Office action for a list		d.				
A 44 l	4(5)						
Attachmer	nt(s) ce of References Cited (PTO-892)	4) Interview Summary	(PTO 412)				
	ce of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					

 Notice of Dransperson's Patent Drawing Review (FTO-940)
 Information Disclosure Statement(s) (FTO/SB/00) 5) Notice of Informal Patent Application 6) Other: _____ Paper No(s)/Mail Date _____.

Application/Control Number: 10/517,862 Page 2

Art Unit: 2621

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/2/2010 has been entered.

Response to Arguments

 Applicant's arguments filed 3/2/2010 have been fully considered but they are not persuasive.

Applicant argues that the combination of Amada, Kawamura, and Tanaka does not explicitly teach the number of channels of said second audio data is not less than the number of channels of said first audio data.

In response, the examiner respectfully disagrees. Tanaka teaches in cases where a lower tone quality is allowable for the LP mode than the tone quality obtainable in the SP mode, all of the four channel audio signals are recorded in column 4 lines 46-52.

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

Application/Control Number: 10/517,862

Art Unit: 2621

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Amada et al. (US 6,339,676 B1) in view of Kawamura et al. (6,075,920) and Tanaka (5,541,739).

Consider claims 1 and 3, Amada et al. teach a recording apparatus for recording video data and audio data corresponding to the video data onto a recording medium, comprising: data forming means for forming second video data which is data based on first video data and whose transmission rate is lower than that of said first video data (col. 13, lines 41-45), forming second audio data by compression encoding first audio data, said second audio data having a plurality of channels which is data based on said first audio data having zero, one, or a plurality of channels corresponding to said first video data and whose transmission rate is lower than that of said first audio data (col. 13, lines 41-45, col. 4, lines 1-16), and outputting data of a low rate in which said second video data and said second audio data have been multiplexed (col. 4, lines 1-16); recording means for recording said first video data, said first audio data, and said low-rate data corresponding to the first video data and first audio data in sequence onto the recording medium (Fig, 1 and Fig. 7 and col. 13, line 63-col. 14, line 14 and col. 14, lines 52-67).

However, Amada et al. do not explicitly teach wherein said data forming means sets said number of channels of said second audio data to a fixed value independent of change of said number of channels of said first audio data during recording process and

Application/Control Number: 10/517,862

Art Unit: 2621

recording means for recording meta data corresponding to the first video data and first audio data onto the disc-shaped recording medium.

Kawamura et al. teach recording means for recording meta data corresponding to the first video data and first audio data onto the disc-shaped recording medium (Fig. 1 and Fig. 3-Fig. 5) and wherein said first video data, said first audio data, said low-rate data, and said meta data are recorded in continuous areas on the disc-shaped recording medium and are recorded in a particular sequence (Fig. 1 and Fig. 3-Fig. 5). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to record meta data corresponding to the first video data and first audio data onto the disc-shaped recording medium to improve the availability of the data recording medium.

Tanaka teaches data forming means sets said number of channels of said second audio data to a fixed value independent of change of said number of channels of said first audio data during recording process (col. 2, lines 23-41 and col. 5, lines 1-8) and the number of channels of said second audio data is not less than the number of channels of said first audio data (col. 4, lines 46-52). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the technique of selectively recording audio channels to permit long-time recording of the digital signal without impairing the quality of the audio signals.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Amada et al. (US 6,339,676 B1) in view of Kawamura et al. (6,075,920) and Tanaka (5,541,739) as applied to claim 1 above, and further in view of Kuroiwa et al. (US 6,788,881 B1).

Application/Control Number: 10/517,862

Art Unit: 2621

Consider claim 2, Amada et al. teach a recording apparatus, wherein said data forming means forms audio data showing silence to the channels which do not correspond to the channels of said first audio data among said plurality of channels of said second audio data and outputs said low-rate data (col. 4, lines 1-16, if one of the input audio channels is missing, then the output of that channel also has no audio.)

However, Amada et al., Kawamura et al., and Tanaka do not explicitly teach said second video data and said second audio data including the channels of the audio data showing said silence have been multiplexed.

Kuroiwa et al. teach said second video data and said second audio data including the channels of the audio data showing said silence have been multiplexed (col. 6, lines 55-65 and Fig. 6). Therefore, it would have been obvious to apply the technique of including the channels of audio data showing said silence have been multiplexed to improve the recording apparatus to enable efficient data management.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAT CHIO whose telephone number is (571)272-9563. The examiner can normally be reached on Monday - Thursday 9:00 AM-5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Q. Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/517,862 Page 6

Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. C. C./ Examiner, Art Unit 2621

/Thai Tran/ Supervisory Patent Examiner, Art Unit 2621